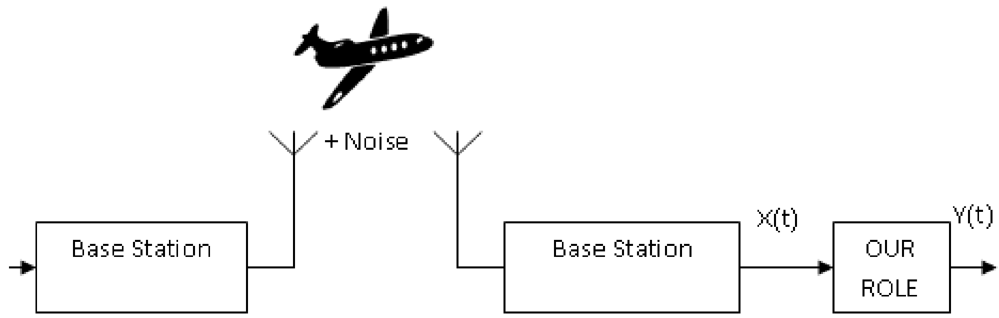
Islamic University of Gaza
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Signals and systems laboratory project

Considered a communication system in Gaza. The base station sends the human voice by the carrier signal by the modulation operation, but before the audience receive the signal, an Israeli plane made noise on it by sending random noise on all frequencies, so it become difficult to hear the voice when it has received. Our role here as engineers is to solve this problem and make improvements on the receiver system and design appropriate filter if needed to eliminate the noise.



X(t) : The noisy signal
Y(t) : Pure Signal

Our role will pass through many steps :

1. Do your best to discover the frequency of the noise.
2. Design a suitable system to eliminate this noise and output the pure signal Y(t).

Notes :

1. All students should do this project by MATLAB. (The input to the system is the wave file "*NoisySignal.wav*" that attached here and the output is also a wave file.)
   ***Hint** : Use wavread ,wavwrite, wavplay functions to help*
2. Each group should be three students or less.
3. Make a report including your ideas and steps for design.
4. **Deadline is 8/1/2011.**